

FIG.1

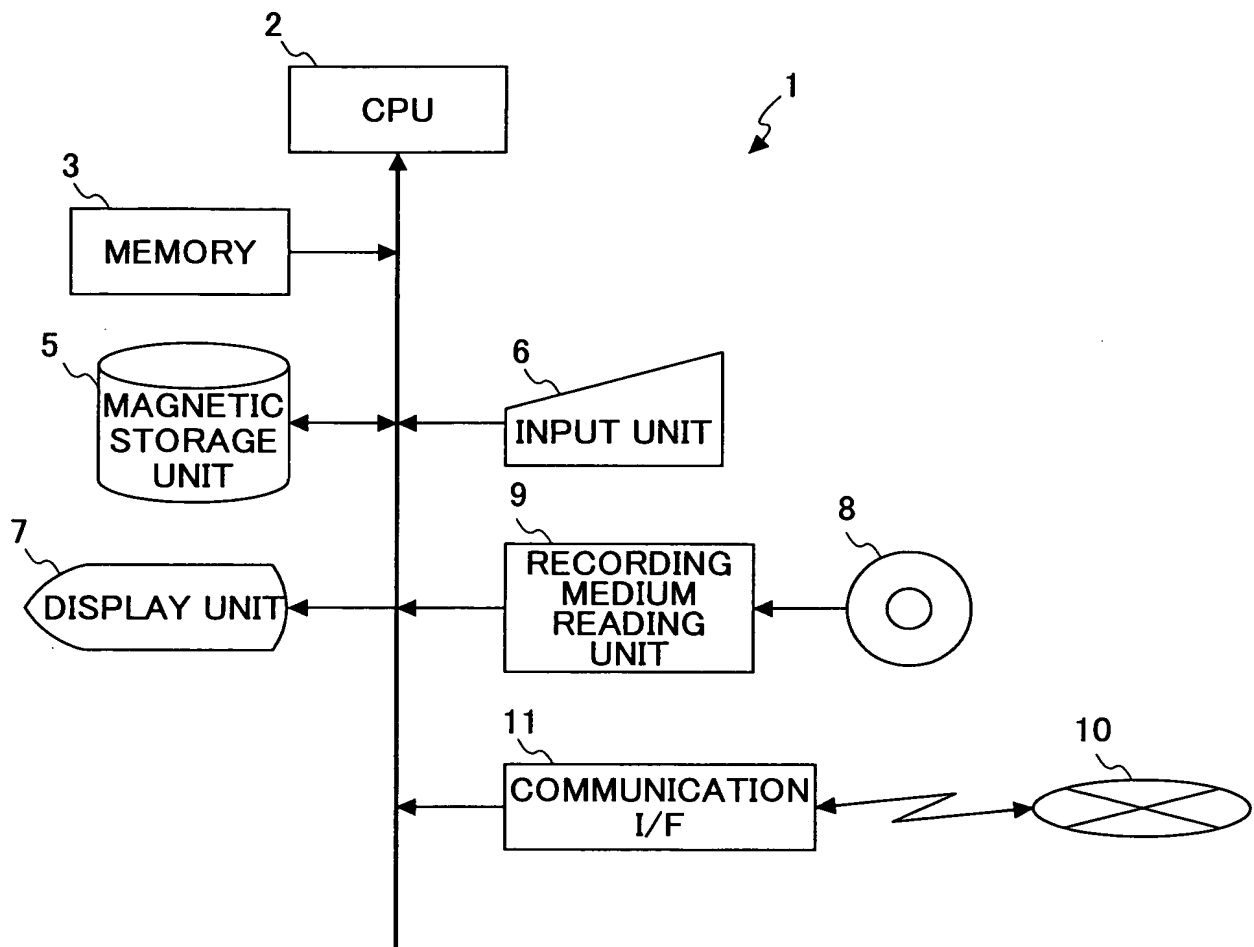


FIG.2

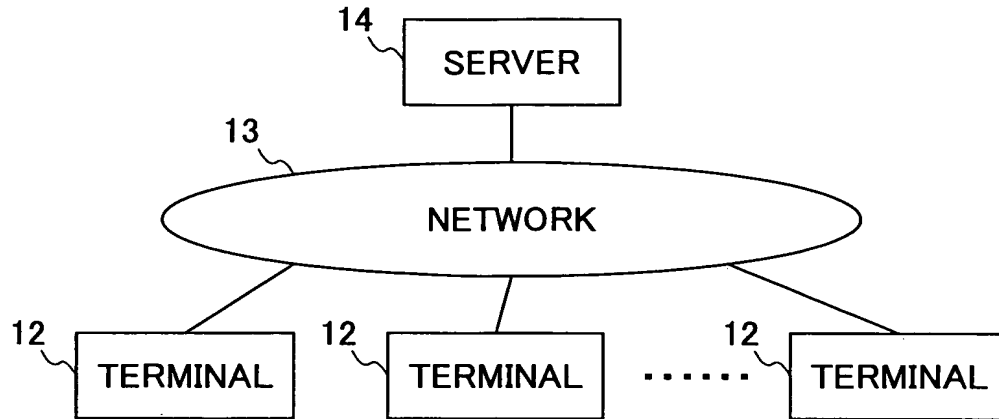


FIG.3

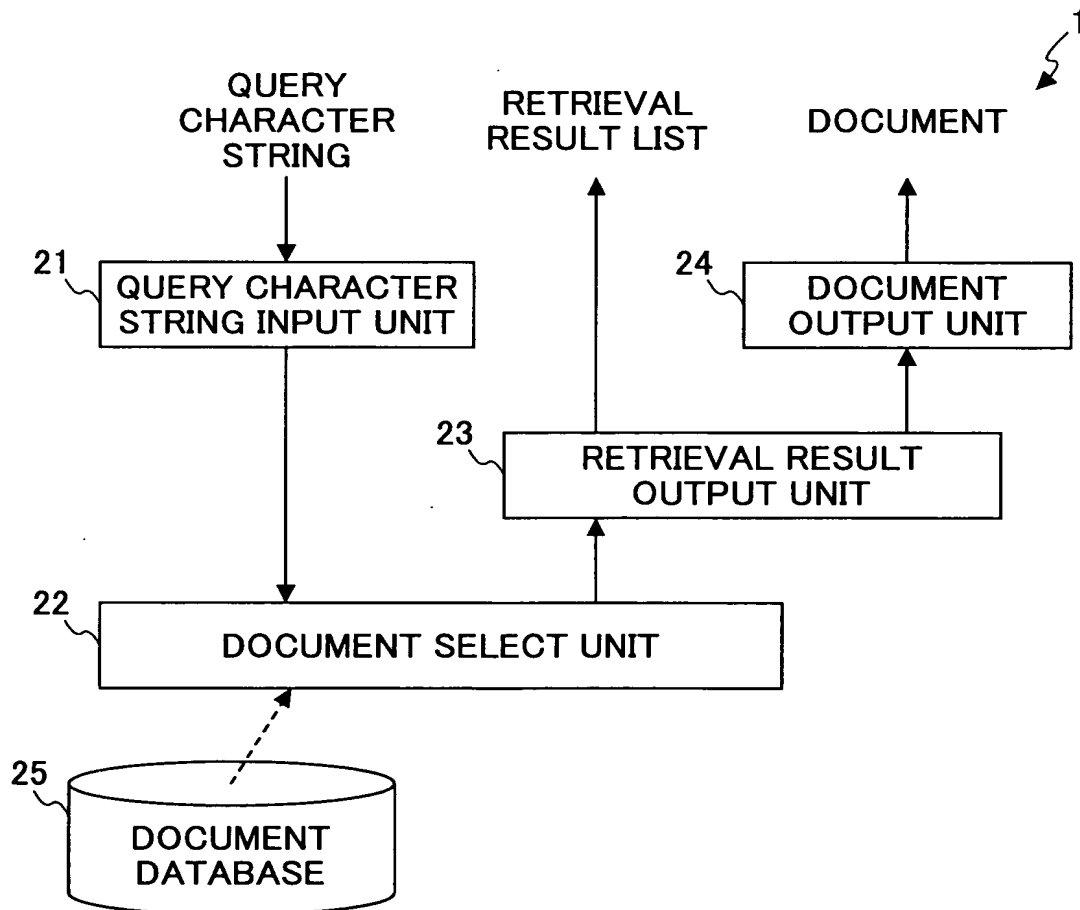


FIG.4

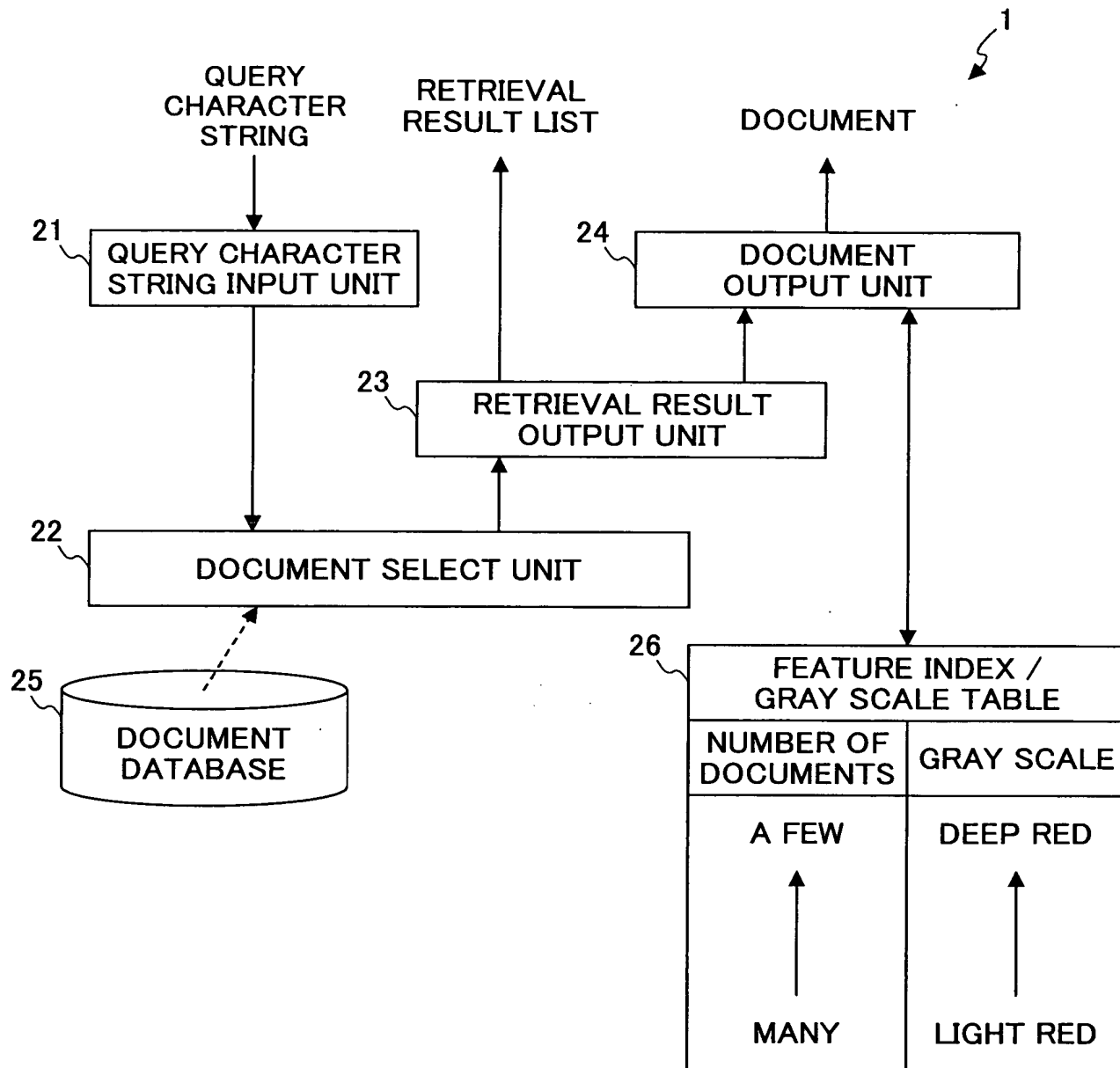


FIG.5

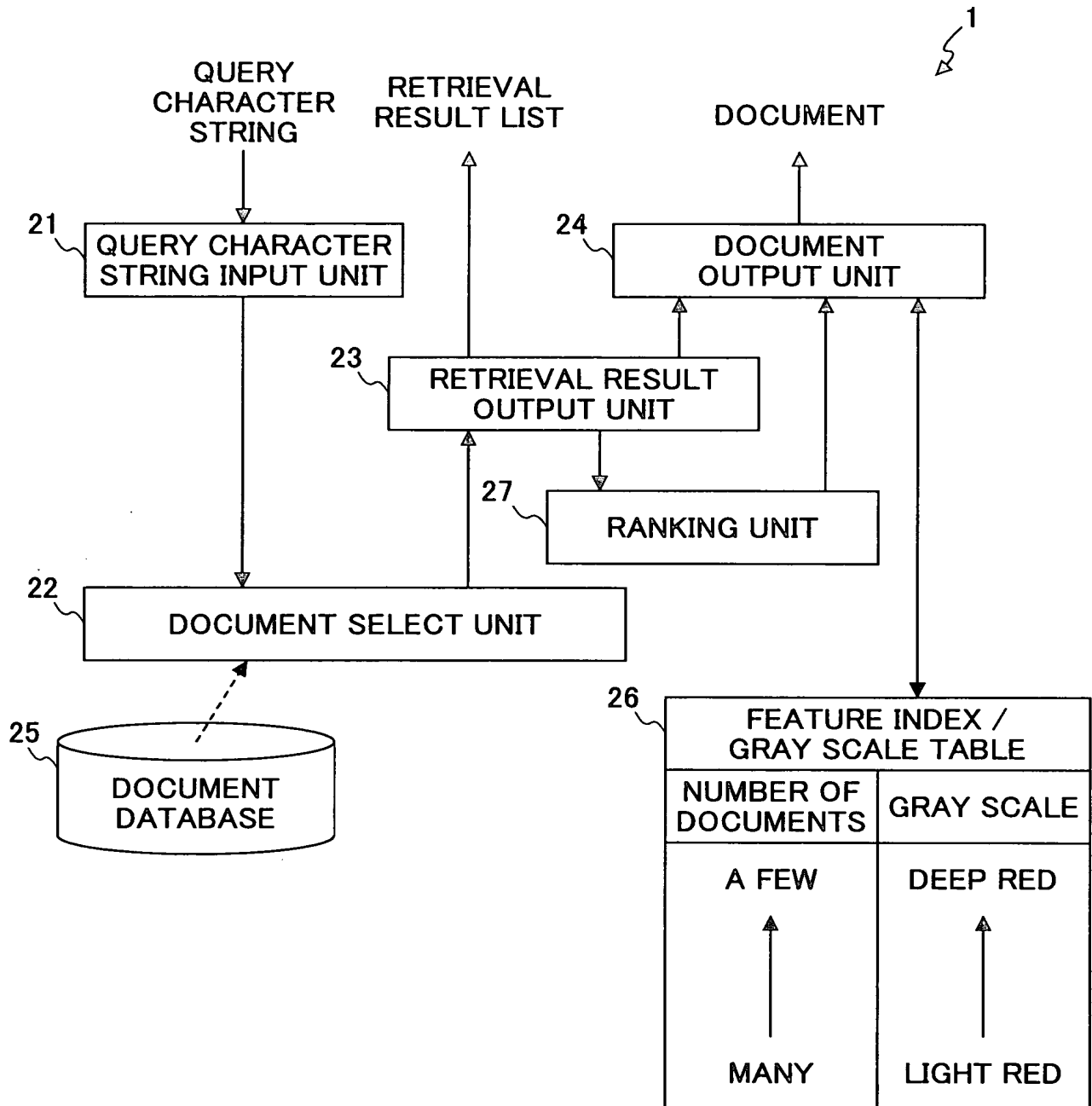


FIG.6

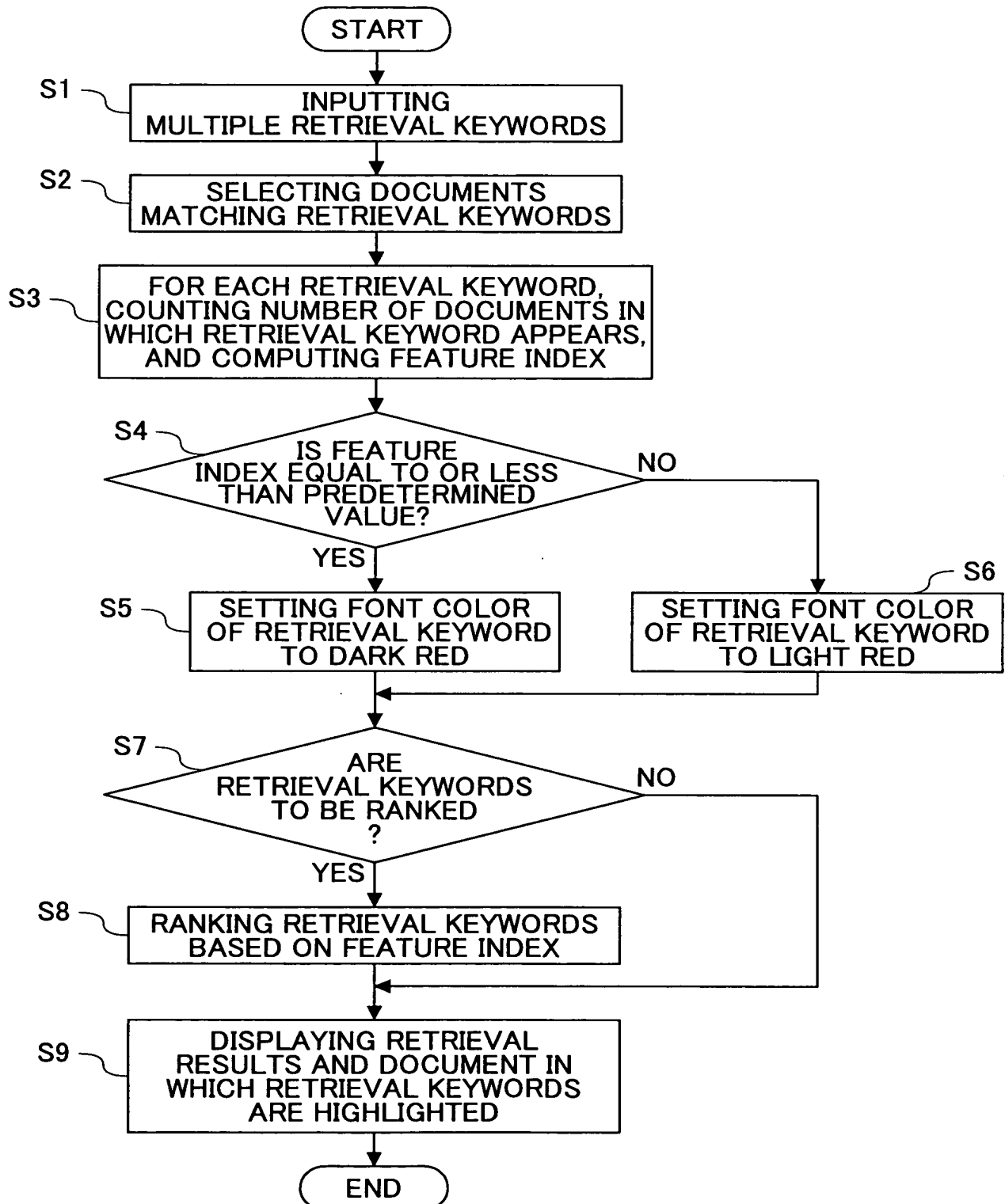


FIG. 7

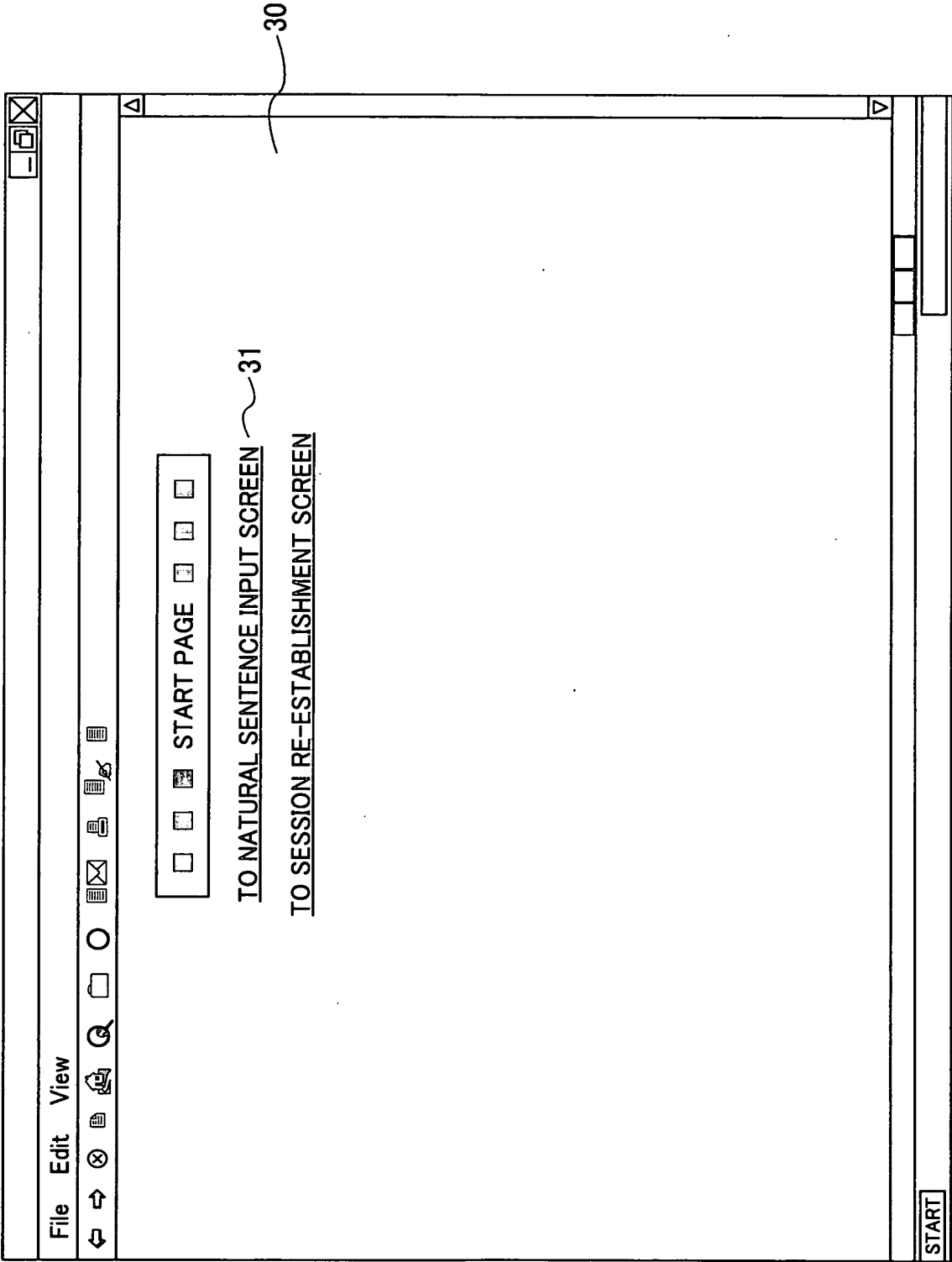


FIG.8

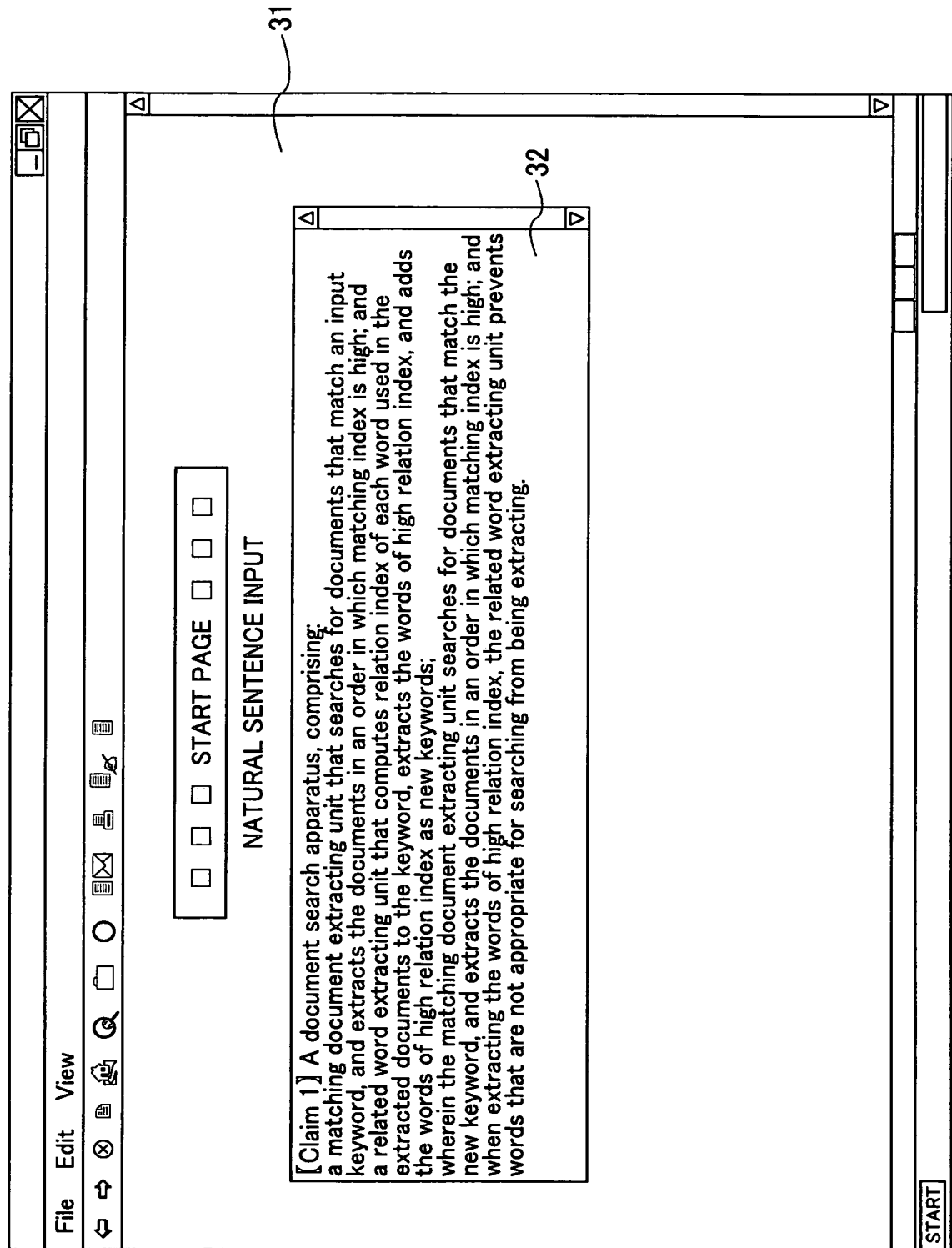


FIG.9

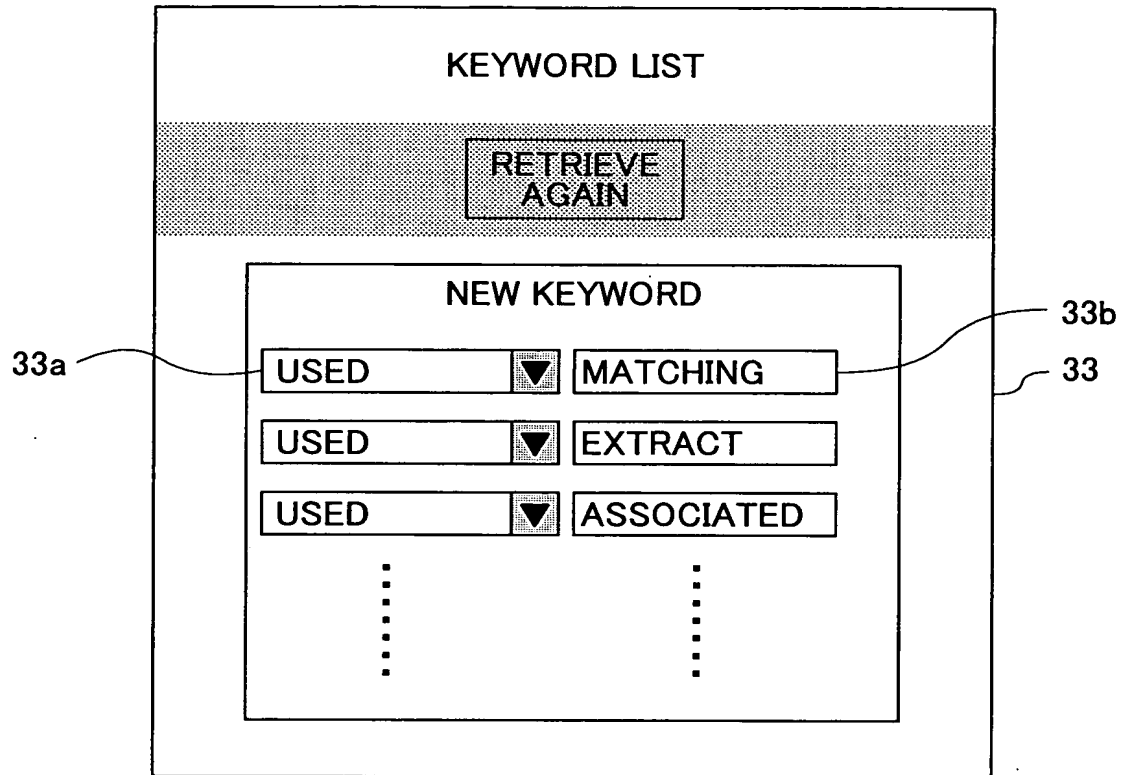




FIG.10

40

File Edit View

DOCUMENT RANKING

KEYWORD LIST

1 ☐ DOCUMENT SEARCH APPARATUS, METH  
☒ NO. 2002-117043 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

2 ☐ RELATED WORD SELECTION APPARATUS  
☒ NO. 2002-140366 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

3 ☐ DOCUMENT SEARCH APPARATUS, METH  
☒ NO. 2002-140365 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

4 ☐ DOCUMENT SEARCH APPARATUS, METH  
☒ NO. 2002-288215 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

5 ☐ DOCUMENT SEARCH APPARATUS  
☒ NO. 2001-134588 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

6 ☐ DOCUMENT SEARCH APPARATUS AND M  
☒ NO. 2002-189784 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

7 ☐ DOCUMENT SEARCH APPARATUS, METH  
☒ NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

8 ☐ DOCUMENT SEARCH APPARATUS, METH  
☒ NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

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11 ☐ DOCUMENT SEARCH APPARATUS, METH  
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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

12 ☐ DOCUMENT SEARCH APPARATUS, METH  
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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

13 ☐ DOCUMENT SEARCH APPARATUS, METH  
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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

16 ☐ DOCUMENT SEARCH APPARATUS, METH  
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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

17 ☐ DOCUMENT SEARCH APPARATUS, METH  
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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

18 ☐ DOCUMENT SEARCH APPARATUS, METH  
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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

19 ☐ DOCUMENT SEARCH APPARATUS, METH  
☒ NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

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☒ NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

23 ☐ DOCUMENT SEARCH APPARATUS, METH  
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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

24 ☐ DOCUMENT SEARCH APPARATUS, METH  
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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

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☒ NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

28 ☐ DOCUMENT SEARCH APPARATUS, METH  
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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

31 ☐ DOCUMENT SEARCH APPARATUS, METH  
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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

32 ☐ DOCUMENT SEARCH APPARATUS, METH  
☒ NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

33 ☐ DOCUMENT SEARCH APPARATUS, METH  
☒ NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

34 ☐ DOCUMENT SEARCH APPARATUS, METH  
☒ NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

35 ☐ DOCUMENT SEARCH APPARATUS, METH  
☒ NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

36 ☐ DOCUMENT SEARCH APPARATUS, METH  
☒ NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

37 ☐ DOCUMENT SEARCH APPARATUS, METH  
☒ NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

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☒ NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

40 ☐ DOCUMENT SEARCH APPARATUS, METH  
☒ NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

41

KEYWORD

SEARCH KEYWORD: MATCHING (23), EXTRACT (64), RELATED (193),  
SEARCHING (361), DOCUMENT (1856), APPARATUS (3809),  
KEYWORD (3349), WORD (6584), MEANS (21175), SEARCH (55422)

INPUT NATURAL SENTENCE

【Claim 1】 A document search apparatus, comprising:  
a matching document extracting unit that searches for  
documents that match an input keyword and extracts the

(19) JAPANESE PATENT OFFICE (JP)

(12) LAID-OPEN PATENT APPLICATION (A)

(11) Publication number: 2002-117043 (P2002-117043A)

(43) Date of publication of application: 19.4.2002

(54) Title of the Invention: Document search apparatus,  
method of searching documents, and recording medium  
storing a computer program for performing the method

(51) International classification  
G06F 17/30 210  
170  
320  
350  
12/00 51C  
[F1]  
G06F 17/30 210 A  
170A  
320D  
350C  
12/00 310A  
[Request for examination]

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43

START

FIG.11

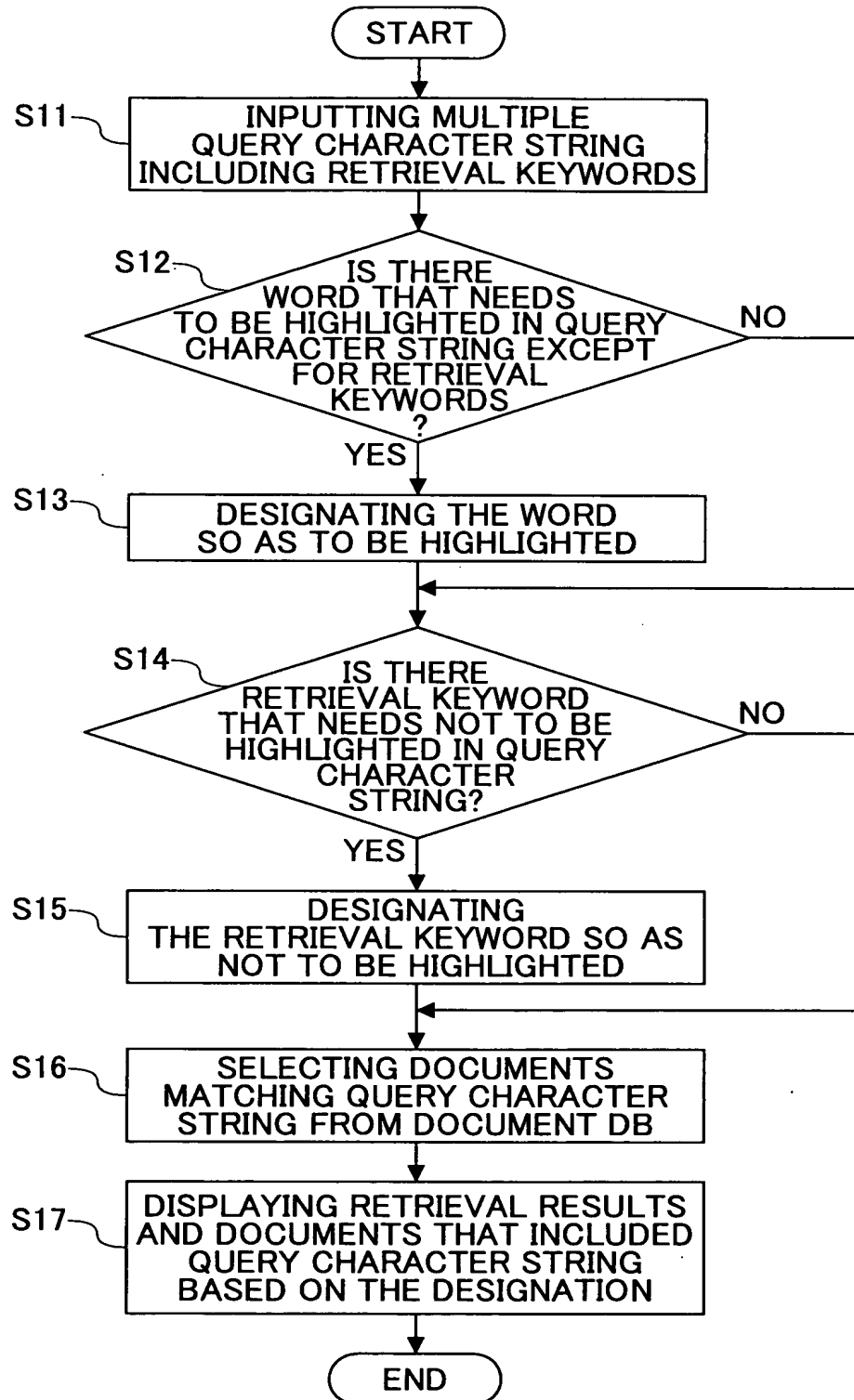


FIG.12

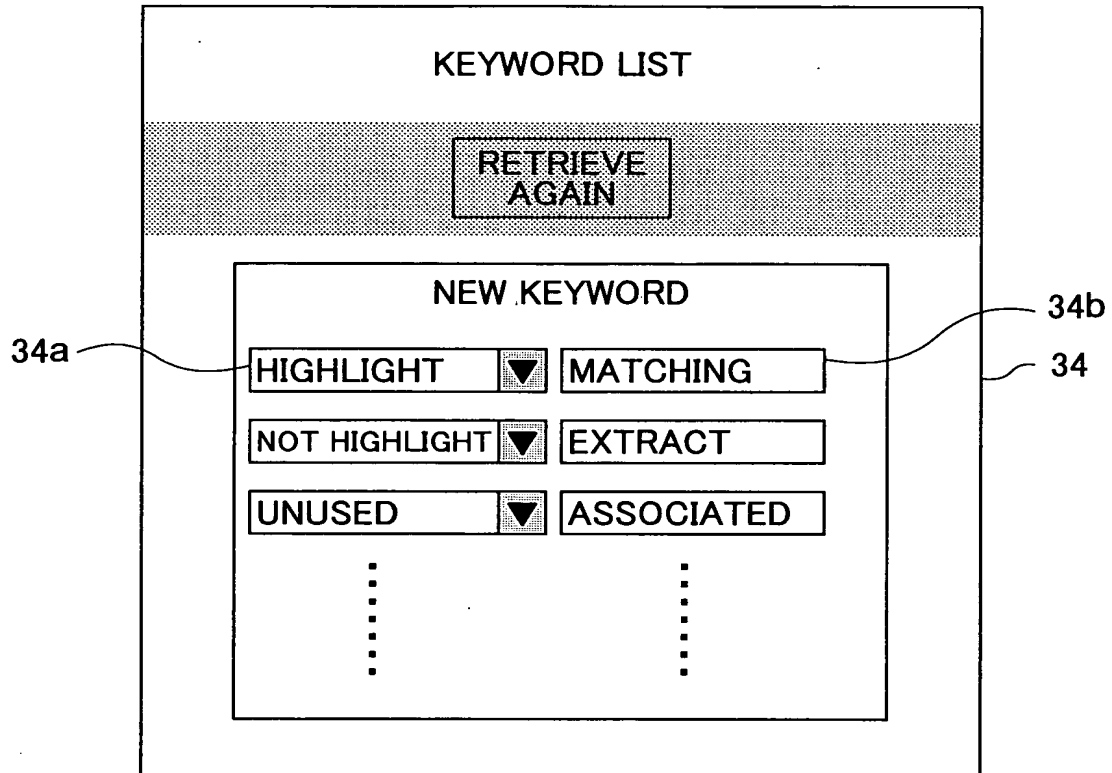


FIG.13

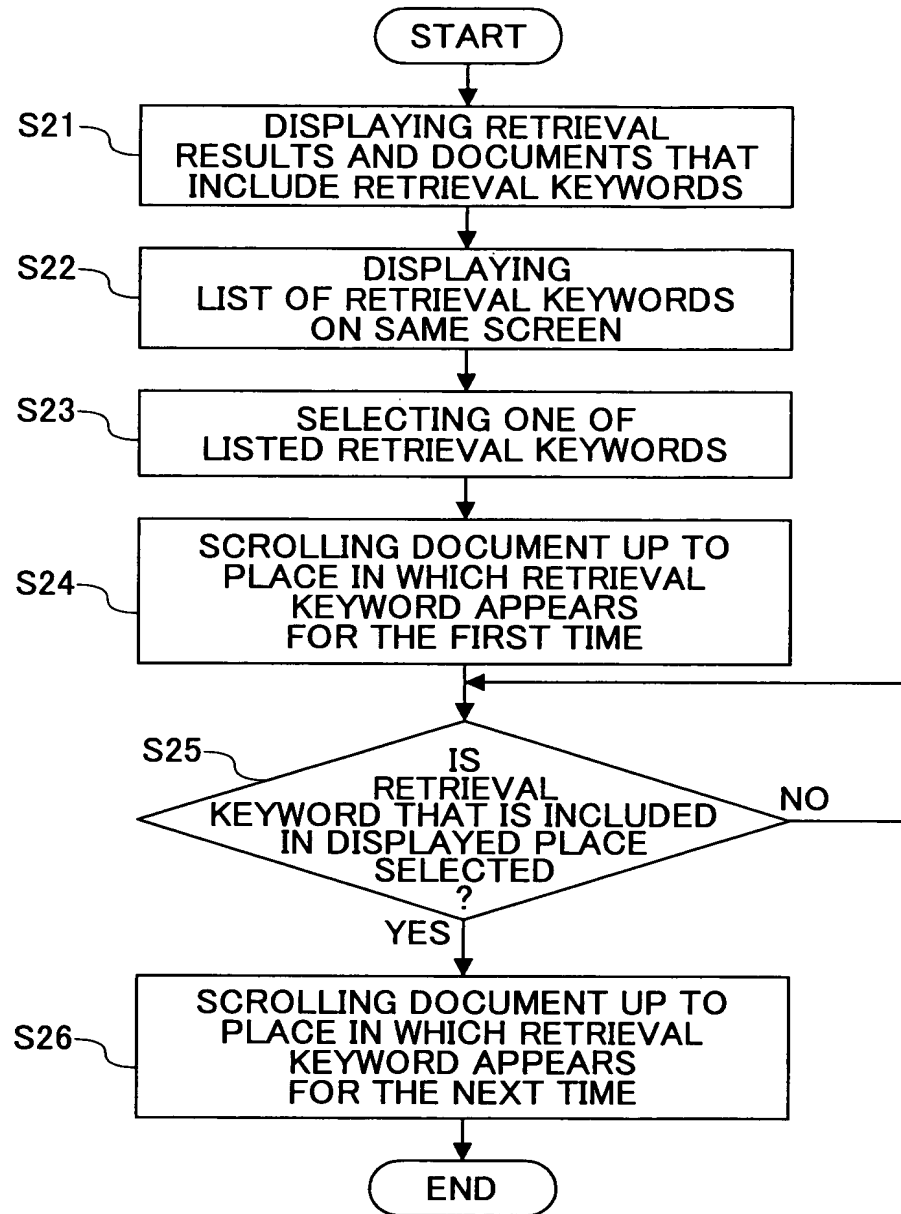


FIG.14

42a 40

File Edit View

DOCUMENT RANKING

KEYWORD LIST

1 ☐ DOCUMENT SEARCH APPARATUS, METH  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL] NO. 2002-117043 APPLICANT: RIC

2 ☐ RELATED WORD SELECTION APPARATUS  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL] NO. 2002-140366 APPLICANT: RIC

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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL] NO. 2002-140365 APPLICANT: RIC

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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL] NO. 2001-134588 APPLICANT: RIC

6 ☐ DOCUMENT SEARCH APPARATUS AND M  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL] NO. 2002-189764 APPLICANT: RIC

7 ☐ DOCUMENT SEARCH APPARATUS, METH  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL] NO. 2002-259386 APPLICANT: RIC

8 ☐ DOCUMENT RETRIEVAL APPARATUS, METH  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL] NO. 2002-259386 APPLICANT: RIC

START

KEYWORD

SEARCH KEYWORD: MATCHING (23), EXTRACT (64), RELATED (193),  
SEARCHING (361), DOCUMENT (1856), APPARATUS (3809),  
KEYWORD (3349), WORD (6584), MEANS (21175), SEARCH (55422)

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(12) LAID-OPEN PATENT APPLICATION (A)  
(11) Publication number: 2002-117043 (P2002-117043A)  
(43) Date of publication of application: 19.4.2002  
(54) Title of the Invention: Document search apparatus,  
method of searching documents, and recording medium  
storing a computer program for performing the method  
(51) International classification  
G06F 17/30 210  
170  
320  
350  
12/00 51C  
[F] G06F 17/30 210 A  
170A  
320D  
350C  
12/00 310A  
[Request for examination]

41

41a

42

43

FIG.15

40

File Edit View

DOCUMENT RANKING

KEYWORD LIST

41b

41

42

43

SEARCH KEYWORD: MATCHING (23), EXTRACT (64), RELATED (193), SEARCHING (361), DOCUMENT (1856), APPARATUS (3809), KEYWORD (3349), WORD (6584), MEANS (21175), SEARCH (55422)

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(54) Title of the Invention: Document search apparatus, method of searching documents, and recording medium storing a computer program for performing the method  
(51) International classification  
G06F 17/30 210  
170  
320  
350  
12/00 51C  
[F1]  
G06F 17/30 210 A  
170A  
320D  
350C  
12/00 310A  
[Request for examination]

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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

3 DOCUMENT SEARCH APPARATUS, METH  
[ ] NO. 2002-140365 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

4 DOCUMENT SEARCH APPARATUS, METH  
[ ] NO. 2002-288215 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

5 DOCUMENT SEARCH APPARATUS  
[ ] NO. 2001-134588 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

6 DOCUMENT SEARCH APPARATUS AND M  
[ ] NO. 2002-189764 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

7 DOCUMENT SEARCH APPARATUS, METH  
[ ] NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

8 DOCUMENT SEARCH APPARATUS, METH  
[ ] NO. 2002-259386 APPLICANT: RIC  
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

START

FIG.16

File Edit View

51 KEYWORDS USED FOR RETRIEVAL

USED	MATCHING	23
USED	EXTRACT	64
USED	RELATED	193
USED	SEARCHING	361
USED	DOCUMENT	1856
USED	APPARATUS	3809
USED	KEYWORD	3349
USED	WORD	6584
USED	MEANS	21175
USED	SEARCH	55422

52 RELATED WORDS

UNUSED	INDEX	2143
UNUSED	RANKING	4662
UNUSED	STATISTICS	7265
UNUSED	APPEAR	8400
UNUSED	WEIGHT	16049
UNUSED	FREQUENCY	17949
UNUSED	SET	33591
UNUSED	ADD	40014
UNUSED	USER	77195
UNUSED	CALCULATE	89437

53 NEW KEYWORDS

UNUSED	
UNUSED	
UNUSED	

54 KEYWORD LIST

RETURN RETRIEVE AGAIN

55 INPUT NATURAL SENTENCE

START